

THIS REPORT IS TOP SECRET

Report on information obtained from PW CS/2168 UFFE HEITZFELD
Nachr Aufkl Ausw Stelle 5, captured
nr FULDA, 2 Apr 45.

THE ORGANISATION AND HISTORY OF
THE CRYPTOGRAPHIC SERVICE
WITHIN THE GERMAN ARMY
(OKH/AHA/In 7/VI later Ag N/Nachr Aufkl)

PREAMBLE

1. PW is a University Research student who specialised in the study of physical chemistry before the war. He has also travelled outside GERMANY, and, owing to the patent business which his father carried on, he managed to acquire knowledge of many European languages including English, French, Swedish, Hungarian, Turkish and Serbo-Croat. On account of his mathematical and linguistic qualifications it is not surprising that PW was speedily recruited for the German "Y" Service.
2. His army career was as follows:

Jun 41	Called up
15 Jun 41 - mid Jul 41	Nachr Dolmetscher Ers u Ausb Abt MEISSEN
Jul - Sep 41	OKH/Chof H Rüst u Bde/Nachr Betriebs Abt; 8 weeks' cryptographic course.
Sep 41 - Jul 43	Worked in the English Referat of In 7/VI as a cryptographer on British traffic. During the period Jan 42 to Sep 42 he was seconded with a team of cryptographers from the English Ref of In 7/VI to KNA 4, the Sigs Intercept Unit in ATLENS.
Jul 43 - Oct 43	Italian Referat In 7/VI as a cryptographer.
Oct 43 - Dec 43	Mihailovitch Section, Balkan Referat In 7/VI as a cryptographer.
Dec 43 - Nov 44	Head of the Tito Section of the Balkan Ref In 7/VI.
Nov 44	Posted as a cryptographer to Nachr Aufkl Ausw Stelle 5, KNA 5, BAD DÜRHEIM, as a cryptographer.
Jan 45	In Hospital
Apr 45	Captured while "trying" to rejoin his unit from hospital.
3. The subject dealt with in this report has already been partly covered in SIR 1335, and PW cannot usefully add to that report in matters of formal organisation. Salient differences between PW's information and SIR 1335, are indicated, otherwise it can be taken that PW has largely confirmed that report, but has added considerably to information on the activities carried out during the war by In 7/VI.

- 4. PW is anti-Nazi and cooperative. He is extremely intelligent and thorough, and his information can be considered reliable.

ORGANIZATION

IN 1941

- 5. General
In 7/VI, which was the central decoding agency of the OKH, consisted of a number of sub-sections or Referate. These Referate were numbered as a matter of form, but PW cannot remember the exact numbering and states that, in any case, he believes he has given all sub-sections within the department. The organization of In 7/VI during the war shows the increasing scope and responsibilities of this department.

- 6. In 1941 the general structure of In 7/VI (see Appendix 3) was as follows:

- Personal Abt
- English Referat
- French "
- Italian "
- Balkan "
- Russian "
- Mathematical Referat
- Linguistic Research Referat
- Cryptographic Training Section

1944

- 7. The actual cryptographical work performed by the sections engaged in this work is described hereafter. As for organizational details, PW can add little to what has already been given in SIR 1339. On the Mathematical Section, however, not mentioned in that report, he has furnished the following particulars.

8. Mathematical Section

This section, as its name implies, carried out the mathematical research, necessary in cryptography, on behalf of all language sections of In 7/VI. The main effort in the Mathematical Section was concentrated on establishing the identity of new and unknown ciphers which the language sections had been unable either to break or even to identify. Thus a good deal of research was carried out on traffic which later turned out to be that of the War Office code.

1941-1943

9. Expansion of English Referat

This section, which had been built up from personnel recruited on the cryptographic course of 1941, had become the largest Referat within In 7/VI in the days prior to the invasion of EUROPE. In 1943 it comprised four main syndicates, working as follows:

- Inter-departmental code syndicate
- Army Manoeuvre Traffic in the British Isles Syndicate
- War Office Code 1942 Syndicate
- " " " 1943 and other Middle East Traffic Syndicate.

Addition of further Referate

- 10. By 1943 In 7/VI had been further expanded by the addition of an American Referat, an Agents' Referat and a Hollerith Referat, and the responsibilities of the English Referat had greatly increased, the section being divided into several syndicates.

- 11. The Department then presented the appearance shown in Appendix 4.

1943-44

Expansion of Balkan Referat

12. This section was greatly expanded in the period 1943-44, both on account of the extensive partisan activities in that area, and on account of the untrustworthiness of the satellite Governments in the Balkans whose traffic had to be carefully monitored.

In the Summer 1944 the Balkan Referat was divided into the following sections which reflect the activities it carried out:

- Mihailovitch Section
- Tito Section
- Croat Govt (Pavelitch) Section
- Hungarian Section
- Rumanian Section
- Bulgarian Section
- Turkish Section

13. It should be noted that only the Greek, Tito and Mihailovitch Sections were dealing with the traffic of agencies actively hostile to the Germans.

1944

Reorganisation Summer 1944

14. In Summer 1944 reorganisation of the department took place. The old In 7 was cannibalized and absorbed in to the Antsgruppe Nachr, and as a result In 7/VI was now renamed AgN/Nachr Aufkl. What the position of this new directorate was within AgN, or what its relations were vis a vis the Gen d Nachr Aufkl in the Field Army, is a question which PW is unable to answer.

15. AgN/Nachr Aufkl was divided into three main sections:
Haupt Referat for Mathematics
" " " Languages
Hollerith Abt.

16. Haupt Referat for Languages

The Haupt Referat for Languages covered the same field as had been covered by the individual language Referate in In 7/VI.

17. Italian Referat

This Referat disappeared during the reorganisation.

18. Swedish Referat

This was a new addition to the department which was effected at the same time.

19. As a result of these changes the department then presented the appearance shown in Appendix 5.

20. It should be noted that the Russian decoding section, which PW thinks had been stationed in LOETZEN since its evacuation from BERLIN, rejoined AgN/Nachr Aufkl in JÜTERBOG after a short stay in ZOSEN.

21. Subordination to Leitstelle Nachr Aufkl ZOSEN

Simultaneously with these changes the "Gruppe" Nachr Aufkl within the Antsgruppe Nachr was subordinated to the Leitstelle Nachr Aufkl ZOSEN. What form this subordination took, is unknown to W. From the organisational stand-point this subordination involved certain difficulties in that AgN/Nachr Aufkl was in the Reserve Army, whereas the Leitstelle Nachr Aufkl ZOSEN, which was the main evaluation agency, was theoretically in the Field Army.

Personal factors involved

22. The cryptographic activities of In 7/VI were overshadowed by clashes among the leaders of that department. In particular Maj LECHNER, head of In 7/VI, who was not an able cryptographer, was in frequent disagreement with O/Reg Rat BILLOVIC, head of the Balkan Section. Early in 1944 LECHNER, who was a Nazi, had appointed BILLOVIC head of the Haupt Referat Sprachen, hoping thereby to curtail his influence over the work of Balkan cryptographic departments. This move misfired and BILLOVIC was able to defeat all attempts of Maj LECHNER to interfere in the smooth running of the cryptographic sections.

23. The events of 20 Jul 44 led to changes in the higher staffs of In 7, thus completely depriving BILLOVIC of the support which he still possessed on a higher level. Gen FELLGIMBEL, Chef WNW and HNW, was hanged and his representative, the able and energetic Obst HASSEL, fell into disgrace and was removed from his control of In 7, latterly Amtsgruppe Nachr.

24. Obst HASSEL's successor as Chef Amtsgruppe Nachr was Genmaj ARNOLD who had formerly been comd of a unit in which Maj LECHNER had been a junior officer. Furthermore Obstlt ANDRAE, the head of Leitstelle Nachr Aufkl ZOBSEN to which AgN/Nachr Aufkl was now in some way subordinate, was himself a close friend of Maj LECHNER.

Subsequent changes

25. As a result of these changes Maj LECHNER thought the time ripe to carry out his own internal re-organisation and to this end submitted plans to Genmaj ARNOLD in Apr 44. O/Reg Rat BILLOVIC and all heads of departments belonging to his, the anti-Nazi clique, were declared available for posting. Among those affected were Sdf(Z) STEINBERG, Sdf(K) PIETSCH and Oblt LÜDERS. Proceedings were also instituted against Hptm HACKER, Comd of 4 Coy Nachr Betriebs Abt/Chef H Rüst u Bde (the coy which held cryptographers under training) on a charge of corruption.

26. As a result of these postings, Maj LECHNER went ahead with his own plans which largely reduced the efficiency of his directorate. He amalgamated the American and English Referate under Sdf(Z), now promoted Reg Baurat SCHULTZ, thereby radically reducing the size of the American Referat in the process.

27. It should be noted that this reorganisation was carried out at a time when the cryptographic effort in respect of British and American ciphers should have been increased, not whittled down.

28. Following these departmental upheavals a meeting was held by adherents of the BILLOVIC clique at which Uffz FILLMITSCH read a letter to the OBDE, RFSS HIMMLER, stressing the fact that BILLOVIC was indispensable and exposing the incompetence of LECHNER. IW's mother succeeded in passing this letter to SS Ogruf JÜTNER, Chef IHA, and in consequence BILLOVIC's posting to OKW/Chi was confirmed.

Owing to the exceedingly unsettled conditions in AgN/NL, P1 nevertheless deemed it advisable to get a transfer, and early in Nov 44 he got himself posted to KNA 5 as a cryptographer.

Sprachforschungs Referat (Linguistic Research)

- 29. This section compiled glossaries and dictionaries for slang and technical terms used in the military traffic of various nationalities. A knowledge of these abbreviations was found to be invaluable when attempting to break new codes.
- 30. This Referat was transferred to OKW/Chi in Oct 44.
- 31. Absorption into OKW/Chi and Gen d Nachr Aufkl (?)
Owing to his posting to KVA 5 in Nov 44, PW has no knowledge of the absorption of parts of In 7/VI into the organization of Gen d Nachr Aufkl (see SER 1606 paras 34 and 39).

LINK-UP OF IN 7/VI WITH MIDDLE EAST AGENCIES

- 32. The link-up of In 7/VI with the Middle East intercept agencies, of which PW has special knowledge through having worked with them, is shown in Appendix 6.

PUBLICATIONS

- 33. PW is not very explicit on this point. Each Referat published its own Nachr Aufkl Meldung (formerly VN - Verlässliche Nachrichten-Meldung) which had only a very limited distribution of about five copies. These copies were only forwarded to those agencies most intimately concerned with intelligence on a particular subject. Thus the Nachr Aufkl Meldung of the Tito Section was distributed as follows:
 - 1 copy Balkan Referat
 - 1 " OKW/Chi
 - 1 " LNA (ZOSSEN)
 - 1 " ? Dept General Staff ONH
 - 1 " KMA 4 BELGRADE

ACTIVITIES

ENGLISH
REFERAT
SEP 41-
JAN 42

- 34. When PW joined the English Referat in Sep 41, the dept was still rather small. Some work on British traffic, principally Raster, Syco and syllabic, was carried on. This work was directed nominally by O/Insp ZILLMANN but, as he was an evaluator, the main work was undertaken by O/Insp LIEDTKE. New cryptographers, trained by Insp RÜHN, were placed at his disposal in order to deal with cert in traffic which had not till then proved amenable to treatment.
- 35. All the material had been passed back to In 7/VI by forward intercept units in the field, and consisted of matter which was either difficult to decipher or required detailed statistical treatment.
 - Attempt to crack WO cipher W
- 36. One of these sources of material was the War Office cipher W, which had been captured - one copy in NORWAY and one copy at DUBAIK. Another source was traffic which had been intercepted since Mar 41 by the Feste Horchstellen GRZ and TULLN, latterly absorbed by III 4. This consisted of four-figure messages preceded by a five-letter indicator group.

37. During Summer 41 O/Insp LLEDTKE realised that the War Office cipher was the basis for this last material and eventually deciphered a number of messages, some from the period of M.VALL's offensive in GYRENAICA, and some from the period of ROMMEL's counter-offensive to HALFAJA MASS. The new cryptographers were therefore now put to work on this War Office cipher Traffic.

38. Material continued to be provided partly by KNA 4 and its forward units in the BALKANS, and partly by KNA 7 (RO.E) and its forward units in AFRICA. Material was sent back by air.

39. O/Insp LLEDTKE, assisted by Wm SCHICHT and their syndicates, sifted the material, from which it was possible to establish the OD of the newly-formed British 8th Army. The British November offensive was followed from BIR OMAR to TOBRUK, and likewise the break-out of ROMMEL from the SIDI REZECH pocket. It did not take long before the new units in the 8th Army were recognised, particularly the South African and New Zealand formations.

40. At the same time by breaking WO cipher it proved possible to identify parts of the 9th Army in MALLETINE, and of the 10th Army in IRAQ, but owing to the paucity of traffic it was not easy to make appreciable inroads.

Method

41. The way in which LLEDTKE worked was as follows:

42. From Jul to Oct 41, the WT traffic between the TOBRUK garrison and HQ 8th Army was carried on by War-Office cipher. Despite a change-over from five-letter to four-figure indicator groups, it frequently occurred that the same indicator groups were used more than once, indeed sometimes as often as five times, and the reciphering table was also repeated. The British tried to hinder German deciphering work by frequent changes of the reciphering tables, but once an inroad had been made into two or three messages with the same indicator group, it was possible to decipher further messages which, although they had different indicator groups, were built up on the same reciphering table.

43. This was achieved by selecting a known reciphering group and attempting over a wide range of material to ascertain the initial enciphering of a common feature such as an address.

44. To accomplish this inroad the material was statistically analysed by Hollerith methods, the four figure groups being arranged in phases of five.

FORWARD CRYPTO-
GRAPHIC SECTION
OF IN 7/VI WITH
KNA 4 IN ATHENS
JAN 42-SEP 42

Further attempts to crack WO cipher W

45. As a result of the success thus achieved in BERLIN in unravelling the War Office cipher, it was decided, on the advice of O/Insp LLEDTKE, to send a team of cryptographers to ATHENS. The object of this move was to enable War Office cipher to be cracked on the spot and thereby to reduce the time wasted in sending traffic back to BERLIN. It was hoped thus to obtain valuable tactical results, and to put these results at the disposal of the operational staffs.

46. The party was to have left in Dec 41, but certain difficulties with the War Office cipher cropped up in the middle of Dec 41 which held up the move. These difficulties were resolved by Gefr LEISS, and the party was able to proceed to ATHENS in Jan 42, arriving there early in Feb. The group consisted of Wm KLAUS, Uffz RUSCH, Uffz SLDIKE, Gefr HSEM, Gefr HERZFELD (PW), Gefr LEISS, Gefr WERNER, Gefr WRYCER.

FORM 1
TOG 1
SECRET
IN 7/VI
KNA 4
(Jan 42)
(cont)

FORWARD CRYPT- 47.
TOGRAPHIC
SECTION OF
IN 7/VI WITH
RNA 4 IN ATHENS
(Jan-Sep 42)
(contd)

Between the time of the departure of the team from BERLIN and its arrival in ATHENS, O/Insp LILDTKE and Wm SCHMIDT encountered further difficulties with the War Office cipher, which could not be overcome. Wm KLEUS returned to BERLIN in Mar 42 to help to resolve these difficulties, but neither he nor the cryptographic team in ATHENS were successful. The cryptographic team in ATHENS contacted the deciphering dept of the Luftwaffe, who themselves were working on a four-figure cipher of the W.O. At the time the LW was receiving about 500 messages a month and therefore had a good base to work on, but they were unable to provide any assistance.

Reasons for failure

- 48. Wm ascribes this failure to a mistake in policy. There was other material available in sufficient quantities to have given a clue to the WO cipher changes in 1942; it was, however, neglected.
- 49. This material had been picked up in considerable volume by intercept units in the West. It was based on four-figure groups, preceded by a five-letter indicator group and consisted of exercise traffic between trg units in the British Isles; it was not touched by the English Referat in BERLIN.
- 50. The basis of this traffic was the War Office cipher, and the volume of messages picked up early in 1942 was so great that inroads could easily have been achieved. As a result of noting the initial changes which had taken place in the War Office cipher, as illustrated by the manoeuvre traffic, the forward cryptographic sections would have been able to tackle successfully the operational traffic in NORTH AMERICA and the MIDDLE EAST.
- 51. Abandonment of attempt
After having worked at the Horch Auswertestelle Süd-Ost without any success for three months, the War Office cipher group was disbanded. Uffz RIESCH and LILDTKE and Gefr WERNER returned to BERLIN.

Transjordan Traffic

- 52. The remainder, under the guidance of Uffz MÜLLER, were employed by the English cryptographic section of Horch Auswertestelle Süd-Ost in connection with work on the syllabic tables of the Transjordan Frontier Force. This traffic gave valuable information on troop movements in the MIDDLE EAST; for instance, an intercepted message from the Transjordan Frontier Force indicated which units of the 9th Army were being moved to EGYPT to counter ROMMEL's threat to ALEXANDRIA.
- 53. In Jul 42, the Transjordan Frontier Force code was changed from a two-letter syllabic to a four-figure cipher, but within a few hours it was possible for Uffz KLESCHKE, as the result of picking up a mixed message, to work out a new deciphering table.

54. Belgrade detachment - Partisan traffic

In Aug 42 further activities were begun by Horch Auswertestelle Süd-Ost. Lt JOLNY and a staff of Serbo-Croat cryptographers went to BELGRADE to start work on partisan traffic, while Lt TRUBSEN moved to KAVALLA to concentrate on Turkish traffic.

FORWARD CRYPT-
TOGRAPHIC
SECTION OF
IN 7/VI WITH
KN. 4 IN
ATHENS
JAN-SEP 42
(contd)

French cipher

55. PW and Geff WRIEGL were assigned to work with Uffz WINKLER on the ciphers used by the Free French in Central AFRICA. They began by breaking a three-figure cipher from the ULLANGI-TSCHLAKI and the LAKE GELD area.

56. In Sep 42, PW took over work on a reciphered French cipher. The deciphering of a group was achieved by adding the last number of the previous group. While still engaged in breaking this traffic, PW was recalled to BERLIN.

CAPTURE OF
GERMAN INTER-
CEPT UNIT IN
EGYPT
SUMMER 42

57. During PW's stay in ATHENS, Oblt SEEMUM and the long-distance intercept coy which he commanded in EGYPT were captured by troops of the British 8th Army. Only the cryptographers, under the leadership of Sdf(Z) LLEDTKE, were able to escape.

58. To the chagrin of the Germans it appears that the British were able to capture sufficient material to realise the scope of the German intercept activities. PW is unaware of what information, in particular German knowledge of the WO code, was assumed to be thereby compromised. He knows only that all frequencies and call signs were suddenly changed and that the process of interception had to be built up anew.

MOVE OF CRYPT-
TOGRAPHERS
FROM ENGLISH
REFERENT TO
RUSSIA
SUMMER 42

59. Detachment in the CAUCASUS

In Summer 42 Maj MANG, the OC, was posted from In 7/VI, and took over comd of KN. 6 on the Russian front. He took with him O/Insp LLEDTKE and a number of cryptographers for English, including Uffz KRIEGLER and Geff RITTER. PW heard from them on their return that during Autumn 42 they worked in turn at ARMAVIR, KISLOVODSK and PYTIGORSK. The German High Command was aiming at a junction with ROEDEL beyond the CAUCASUS, in the area of IRAN and IRAQ, and to this end it was necessary to have an English cryptographic team on the Russian front.

60. Long range unit in CRIMEA

In addition, a long-range intercept coy was stationed in the CRIMEA, first in the TARTAR STEPPES and latterly at ALUSHTA. The primary object of this coy was to assist the German intercept stations at BALONINKA, KAVALLA and BURGAS in DF-ing British stations. The coy was also to undertake a certain amount of cryptographic work on British NEAR EAST traffic. Owing to Russian resistance in the MOZDOK and OADJONOKIDZE area, this work ceased, and English cryptography in SOUTH RUSSIA was discontinued.

WORK IN
ENGLISH
REFERENT
NOV 42-JUL 43

Further attempts on WO cipher

61. On his return to BERLIN from ATHENS in Nov 42, PW had been entrusted by O/Insp ZILLMANN with the analysis of a large volume of four-figure material intercepted from exercise transmissions in the British Isles. ZILLMANN suspected that these transmissions might be based on the War Office cipher. The messages were headed by five-letter indicator groups. Attempts to break this traffic, which had been recently picked up, with the aid of frequency statistics had proved unsuccessful.

Initial Success

62. PW turned to the material which already mentioned in paras 48 and 50 which had been picked up in the period 1941 - Spring 42, and which had not yet been dealt with. He succeeded rapidly in achieving an inroad, and deciphering the messages. As a result he ascertained in the address of the message the existence of a 1st and 2nd Canadian Division and of a Canadian Army. Simultaneously, the British static commands and sub-areas were identified.

WORK
ENGLI
REFER
NOV 4
(cont)

ITALIA
REFER
JUL 4
OCT 4

WORK IN
ENGLISH
REFERAT
NOV 42-JUL 43
(contd)

63. By applying these addresses, FW was able to break the traffic picked up in Sumner 42 and was able to ascertain changes which had taken place in the reciphering tables and which, if they had been known in Spring 42, would have enabled FW and his colleagues to be successful with their work in ATHENS.

64. FW also succeeded in breaking a couple of messages using War Office code from Jan 43, and O/Funker KÖHLER exploited this success. As a result, Sdf(Z) SCHULTZ and Wm SCHICHT, who had been working on MIDDLE EAST traffic, took over the analysis of 1943 War Office cipher material. W. SCHICHT ascertained the change in the lettering system and established the new substitution key. It was also possible to resolve the reciphering of the indicator group in Feb 43.

65. Difficulties

In Mar 43 a further alteration in the indicator group could not, however, be resolved, though FW believes that this mystery was later solved by means of documents captured in ITALY.

66. Failure

In the meantime, in Spring 43, the one-time-pad reciphering system was introduced, and this made all efforts at deciphering an impossibility.

67. Other ciphers

Apart from the War Office cipher, other British ciphers, such as syllabic, Byco and inter-departmental, were worked on with some success. FW also remembers that the wireless traffic during exercises Tiger and Spartan was followed and successfully decoded.

ITALIAN
REFERAT
(JUL 43-
OCT 43)

Weakness of direction and failures

68. In Jul 43, Maj METTIG, Obat MANG's successor as command of In 7/VI was posted, and his place taken by Maj LECHNER. Maj METTIG, though a novice in cryptography, was nevertheless a very able and conscientious officer and had soon mastered the technique of his job. His successor, Maj LECHNER, was completely ignorant of his work, and his ignorance was revealed all too clearly by the events preceding and following the defection of ITALY. In FW's opinion, had the direction of In 7/VI been in the hands of an expert in Jul 43, GERLMAY would not have been taken completely unawares about MUSCOLINI's downfall.

69. The influence of amateurs in cryptography was felt the more seriously because it was believed that a Führerbefehl existed, that the traffic of GERLMAY's allies should not be watched. The result was that developments in ITALY were completely secret, especially as the mission of Htm FIALLA, former head of the Italian Referat, to ROME in the Winter of 1941-42 to discuss mutual matters of cryptographic interest with the Italian authorities (i.e. the weakness of the Italian ciphers), had not only put the Italians on their guard, but allowed them to introduce new methods of reciphering with what amounted to a one-time-pad method.

Reorganisation

70. As a result of the removal of MUSCOLINI, the Italian department, which hitherto was only allowed a shadow existence, was quickly resuscitated by the addition of personnel from other sections. FW joined this referat as a reciphering expert.

ITALIAN
REFERAT
(JUL 43-
OCT 43)
(contd)

ACTIVITIES
OF TITO
OF BALKAN
REFERAT
Nov 44
(contd)

71. The work of the Italian Referat was greatly assisted during July, Aug and Sep by the capture of substantial material from the Italian cipher bureau in ITALY and GREECE. However, not very much benefit was reaped from Italian intercept as the Allies speedily persuaded the Italians to transmit traffic in cipher.

72. Dissolution
When LAROS and the BODLOVASE were taken over finally by the Germans, the Italian Referat was wound up. Uffz M.N. IGO, Uffz KRATOCHWIL and Sdf(G) BILDT were taken over into the Agents Referat; FW himself joined the Balkan Referat, while the remainder were transferred to the French Referat.

ACTIVITIES
OF MIHAILOVITCH
SUB-SECTION
OF BALKAN
REFERAT
(OCT-DEC 43)

73. The MIHAILOVITCH movement used mainly the double transposition cipher with key words of a similar length. Uffz GLANER and Gefr GLASSNER were able to achieve quick inroads into these codes, even in the most difficult cases. In general about 70% of intercepted messages were solved, and these proved very informative as the CHERTNIKS were very talkative.

74. FW was employed on the deciphering of the foreign traffic of DRAZAN MIHAILOVITCH. The traffic consisted principally of messages between MIHAILOVITCH and the Yugoslav Government Representatives in CAIRO and LONDON. The contents of this traffic, though interesting, contained, for the most part, only rumours.

75. MIHAILOVITCH's distrust of his British liaison officers was particularly noteworthy. Time and again he ordered his subordinates not to give the British liaison officers opportunities of gaining an insight into the organisation and intentions of the RAVNA GORA Movement, as the British liaison officers were suspected of espionage for his Great rival TITO.

76. For a short time FW took over the card index which contained the CB of the MIHAILOVITCH movement. This gave him an insight into the distribution of forces in SERBIA and the grandiose sub-divisions into corps and battalions. FW could also keep himself informed of the quarrels among the higher ranking leaders of the RAVNA GORA Movement. In this connection FW can still recall the names of British liaison officers, such as BAILEY, OWENS, HUNTER, STEWARD, although it was none too easy for him to decode the correct spelling from the phonetic Serbian spelling.

ACTIVITIES OF
TITO SECTION
OF BALKAN
REFERAT
(Dec 43-
Nov 44)

General Summary of TITO ciphers

77. In Dec 43 FW joined the TITO Section of the Balkan Referat as the deciphering specialist, eventually taking over the direction of this section.

78. At this time TITO employed substitution keys, mainly two-figure substitution keys deciphered with short-figure rows, or with phrase keys which extended over 6, 9, 13 or 19 letters according to the cipher. Some of the communications between the lower formations, especially in SLOVENIA, were found to be simple two-figure codes without recoding of any kind.

79. When FW joined the section there were also available, however, messages of far greater importance, such as those passed between TITO's GHQ (Vrhovni Stab) with either the GAC in CROATIA (Glavni Stab, HRVATSKA), or the 2nd Corps in MONTENEGRO, the 3rd Corps in WEST BOSNIA, the 5th Corps in DALMATIA and the 10th Corps in SLOVENIA. These messages had not been decoded by the cryptographers at KM 4 located in BELGRADE.

ACTIVITIES 80.
OF TITO SECTION
OF BALKAN RE-
PERT (Dec 43-
Nov 44)
(contd)

WT was able to establish the reciphering groups of this material, whereupon Wm ESSLERLEY and Geofr KIFFLER recognised the deciphered figures as based upon a variable substitution key. Geofr KIFFLER had met this type of code during his work as cryptographer in Russian traffic. Thus, without exception, all TITO's messages were deciphered.

81. The reciphering of these messages was accomplished by means of a row of 35, 40, 45 or 50 figures which changed monthly. TITO's misgivings as to the security of this cipher were obvious from intercepted messages in which he ordered the introduction of a new cipher as from 15 May 44. From that date a new cipher was, in fact, introduced. The cipher was characterised by a reciphering system which was apparently based on a reciphering table consisting of an endless stream of figures, the starting point for reciphering being conveyed by an indicator group at the head of the message.

Paratroop raid on TITO's HQ and the capture of TITO-MOSCOW cipher

82. A sudden interruption of all WT traffic from TITO's GHQ lasted from 27 May until the middle of June. On 27 May a paratroop raid on TITO's GHQ had taken place, and TITO with his cipher office had apparently moved from DRVAR to the 2nd Corps. Some of the files of TITO's cipher office, however, were found in one of the caves at DRVAR. These files contained reciphering tables of the new pattern which had now naturally been compromised and cancelled; the files also provided a good survey of the cipher procedures used by TITO's General Staff and subordinate formations, including special Russian cipher for traffic between TITO's GHQ and MOSCOW.

83. The system underlying the TITO - MOSCOW cipher was now known to the Germans, but it had also to be recognised that the possibilities of cracking it were exceedingly slender.

84. Reciphering tables were used which contained 200 to 300 five-figure groups per page, and amounting to ten pages in all. For every line in a message there were two separate reciphering books, one for in, and one for out traffic. The reciphering books were set up by converting a book-text into a figure-text whereby the various letters of the alphabet were numbered by single or pairs of digits made up from the figures 0 - 9. There would therefore arise in two or more messages short parallel sections which conveyed the erroneous impression that such messages had been reciphered from identical points in the reciphering table, whereas in effect these parallel sections were caused by a repetition of certain words in the book text, which did not continue indefinitely.

85. A cipher similar in principle to that just described was used within the partisan forces from Jan 44. It involved the setting up of variable substitution keys and reciphering figure-rows by means of 50 or 60 figures from a book-text, or through reciphering by special figure squares. The starting point of the cipher was given by an indicator group which contained the page and row of the book or the line and compartment of the group from which the reciphering process was to be started. The indicator group itself was then specially reciphered and inserted into the message as the 3rd, 5th or 8th group as the case might be.

ACTIVITIES
OF TITO SECTION
OF MILKIN RE-
PERT (Dec 43-
Nov 44)
(contd)

Failure of TITO's security policy

86. All these methods, however, were too complicated for the cipher personnel of TITO's corps and divisions, and particularly for the smaller partisan units. Thus the Germans hoped that sooner or later the partisans would of necessity revert to simpler methods.

87. This hope was soon justified in YUGOSLAVIA. In Aug 44, TITO's divisions began to use the variable substitution key with a shorter reciphering process again. Substitution keys, with many alternatives for expressing letters and phrase keys of specific length applied to the text, returned to fashion. Naturally the deciphering rate rose.

Results obtained from code-breaking

88. Up to May 44 decoding of TITO traffic had been very successfully undertaken by the Germans; not only was the partisan OB established and all personalities identified but furthermore information of considerable tactical value was gained as intercepted traffic revealed TITO's intentions to the full. This intelligence asset on the German side did not alter the fact that TITO himself had an excellent espionage system within the forces of the Croat Government and was frequently able to forestall the German counter-measures taken on the basis of intercepted traffic.

89. Further information gleaned from the deciphering of TITO traffic included the dispositions of British and American military missions, and the names and activities of Allied officers and agents whose activities ranged from Northern ALBANIA to the Austrian border. Occasionally the compromising of German agents to the enemy was revealed through this channel as well.

Partisan traffic in ALBANIA

90. Another field of activity explored by the TITO Section was the activity of partisan formations in ALBANIA. For this purpose single traffic in large quantities from Southern MACEDONIA was available. During a German Operation "Soydlitz" a large quantity of Albanian cipher material was captured, which PW had to translate. These documents dealt with instructions for a substitution cipher.

GERMAN IMMER-
CEPT ACTIVITY
IN RUSSIA
AUTUMN 42-
SPRING 43

91. IW knows little about this subject himself, but learnt some interesting information from colleagues of his who had been attached to the German "Y" service on the Russian front as English cryptographers. Uffz KINDLER and O/Geir LITTE related how it was possible, by means of deciphering, to follow the move of the Russian 18th Army from GEORGIA to AZERBAIDZHAN and across the CASPIAN SEA to AFRANKEN. This intelligence, however, was disbelieved by the German operational staffs.

92. About a fortnight before the Russian offensive at STALINGRAD in Nov 42, KNM 6 advised Fuhrer Hauptquartier of the exact Russian plan of operations between the bend of the DON and the mouth of the VOLGA. The information was not taken very seriously. The German intercept service continued to follow the march of the Russian relieving formations which were to thrust from the DONETSK area SOUTH of the DON to STALINGRAD.

93. During the Russian break-through towards MILKOV, the Russian intentions were visibly compromised by clear text messages about the supply situation, as a result of which the German High Command was clearly informed of the Soviet intentions and mounted a successful counter-attack.

STOLEN
BRITISH

SECURITY
OFFICERS

WORK ON
RUSSIAN
CIPHER

C.S.D.1
8 Jul 4

MISCELLANEOUS

STOLEN
BRITISH CODES

94. In Summer 1941, and again in Oct 42, IW heard that In. 7/VI was in possession of a stolen British code. In Jan 1943, while still working in the English Referat, IW was shown a photostated sheet of a code which also included a thumb print. IW believes that the code in question was the British inter-departmental code, though he considers it possible that it might have been another British code. This particular code, whatever its name, was supposed to have been photographed inside the War Office and the thumb print on the photostated sheet was that of the individual who carried out the photographing of the code. As far as IW knows the entire code book was photographed although he only saw one specific sheet.

95. Among personnel who have knowledge of this code, and who might be able to shed some light on the photographing, are: O/Insp EILLMANN, SdF(2) SCHULTZ, Wm SCHLIZ, Kriegsverwaltungsinsp HERRAS and Uffz WEIDT.

96. This story corresponds in broad details with an incident related in SIR 1335 para 39, save that that incident is referred to as stolen American code.

SECURITY OF
AMERICAN
CIPHERS

97. IW states that during the ARDENNES offensive the bulk of German "Y" intelligence gained at FUL 5 came from breaking the slidex traffic of the military police of 1st and 3rd US Armies. The results gave a good picture of the American OB and of the movement of formations.

WORK ON
RUMANIAN
CIPHER

98. In 1944 Wm SCHMIDT was working on a five-figure Rumanian diplomatic cipher. IW knows no details.

C.S.D.I.C.(U.K.)
8 Jul 45

DISTRIBUTION:

M.I.19(a)	War Office	(25 copies)
N.I.D.	Admiralty	(4 copies)
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APPENDIX 1

CRYPTOGRAPHERS EMPLOYED BY IN 7/VI

1941 - 1945

either continuously or intermittently.

a) British Traffic

O/Insp ZILLMANN	Gefr JUNGHANS
Sdf (Z) SCHULTZ	" KREMBOLER
Kriegsverwaltungs Insp HARMS	" KÖHLER
Wm KORN	" MAHR
Sdf (G) Dr BÜCHNER	" MEISINGER
Wm KANALLIYER	" SCHLITZER
Wm KLAUS	" SCHMIDT
Wm SCHANZ	" SCHNEIDER
O/Wm SCHICHT	" SCHUCK
Wm STADE	" SCHUBE
Uffz BREYVOGEL	" TISCHLER

" BUTZKE

" FALTER

" FORSMÜLLER

" GLAS

" HEHLEN, Hans

" HEHLEN, Wolfgang

" LORENZ

" MCGNUSSEN

" MEYER

" PETRING

" RENZ

" SASS

" SCHOFFER

" SCHULTE

" WILDT

" WERTH

" v WOLFF

O/Gefr KLEINECKE

O/Gefr SCHILIA

O/Gefr SCHOTT

O/Gefr TRILLING

Gefr ARNOLD

" BEYER

" DÖHNEL

" FISCHER

" FÖLLER

b) American Traffic

Sdf (Z) STEINBERG

Herr GROSS

Frl SCHÜLE

" WASSERBANN

? STEINWEDDEL, Helmut

? SCHNEIDER, Johann

Wm KURNITZKI

Wm MÜLLER

Uffz ANDERS

" DESSAUER

" KAISER

" KALTENBRUNNER

" Dr LUZIUS

O/Gefr SCHUCK

Gefr MICHALKE

" FOKORN

c) Swedish Traffic

O/Gefr ROHDIN

Uffz ACKENHILL

SPENGLER

d) French Traffic

Sdf (Z) KÜHN
 Uffz BOGASCHIEWSKI
 " BOLDT
 " FLANKE
 " HERMANN
 " JESSE
 " KEYDEL
 " KLUGE
 " MATTUTAT
 " WIEDERBEYER
 " WENCKEBACH
 " WILDENHOFER
 O/Gefr WOLF

e) Serbo-Croat Traffic

O/Reg Rat BILLOVIC
 Sdf (Z) GEISSLER
 Wm ESZTERHAZY
 Uffz BAUER, Rudi
 " FILLITSCH
 " GLÄNER
 " GLAUBERT
 " GRADISCHNIGG
 " HATZEL
 " HERZFELD (PW)
 " KERN
 " MLIRITSCH, Franz
 " SCHEURAN
 " SCHIMATOVITSCH
 " SCHLINZICK
 O/Gefr HÄCKENBERG
 " HAREMANN
 " KIRCHKNOPF
 " SATZECK
 Gefr MATRITSCH, Josef
 " G. SÄNER
 " KAPPLER
 " POBER
 " TSCHUPFER
 Frl ERICH

f) Hungarian Traffic

Uffz SEBER
 " TEUCHTLER

g) Rumanian Traffic

Wm SCHMIDT
 Uffz EMALD
 " WIGNER
 Gefr JÄHLEN

h) Italian Traffic

Hptm FIALLA
 Uffz HERZFELD (PW)
 " KLUGE
 " KRATOCHVIL
 " WENCKEBACH
 Sdf (G) BILDT
 O/Gefr WILDENHOFER
 Gefr FUNKE
 Frl FRANZ
 " KINZ
 " KIRCHNER

i) Greek Traffic

Wm KLEINER
 Uffz FLEBIG
 " HELENBROK
 " PANDEL
 " RANK

j) Bulgarian Traffic

Uffz THIBLE

k) Turkish Traffic

Wm ILGNER
 Uffz ANGELIDES
 " BOSCHTEINEN
 " BURBIL
 " GÄNGLEBERGER
 " HAGER
 " SAUER
 Sdf (G) GROSSE

C. S. D. I. C. (U. K.)
8 Jul 45

TOP SECRET
S. I. R. 1704

APPENDIX 2

SPECIALISTS EMPLOYED BY IN 7/VI 1941 - 45

a) Mathematicians

Uffz BLÜMEL
Lt v DENFFER
Uffz FALTER
Uffz FÖPEL
Uffz GRUBER
Wm HILBURG
Uffz KEHREN
Uffz KOCHENDÖRFER
Uffz KÖPP
Oblt LÜDERS
Sdf(Z) MARQUARDT
Wm NOVAK
Frau NOVACK
Sdf (K) PIETSCH
Uffz Dr RINOW
Gefr Dr WÜNSCHE

b) Language Research Experts

Uffz BÖHRISCH
Uffz BOURGUIGNON
Frau Dr HERZFELD
Sdf (Z) KÖHLER
Uffz KUNZEL
Frl SCHMIDT
Uffz WIRTH

c) Hollerith Specialist

Kriegsverwaltungsrat SCHENKE.

C.S.D.I.C.(U.K.)
8 Jul 45

TOP SECRET
S.I.R. 1704

A P P E N D I X 5

ORGANISATION OF AgV/NACHR AUFKL (IN 7/VI) - SUMMER 1944

OB d E
Rf SS HIMMLER

:
Antsgruppe Nachrichten

:
AgV/Nachr Aufkl
(old In 7/VI)

Maj LECHNER, succeeded by
Maj HÄNTZE

Personal Abt -----:

:
Haupt Referat
Mathematics
ObIt LÜDERS,
succeeded by
Baurat MARQUARDT
Sdr (K) PLETSCH

:
Haupt Referat
for languages
O/Reg Rat BALLOVIC,
succeeded by
ObIt KNESCHKE

:
Hollerith Abt
Kriegsverwaltungsrat SCHENKE

:
English
O/Insp ZILLMANN

:
American
Sdr (Z) STILBERG

:
French
Sdr (Z) KÜHN

:
Swedish
O/Gefr ROHDEN

:
Balkan Referat
O/Reg Rat BALLOVIC

:
Linguistic Research
Sdr (Z) KÖHLER
(To OKI/Chi in Oct 44)

:
Mihailovitch
Section
Uffz GLANER

:
Tito Section
Uffz HERZFELD
(PW)

:
Croat (Pavelitch)
Section
Uffz SCHLINZIGK

:
Hungarian Section
Uffz SEPER

:
Rumanian Sec
Wm SCHMIDT

:
Greek Sec
Wm KLEINER

:
Bulgarian Sec
Uffz THIELE

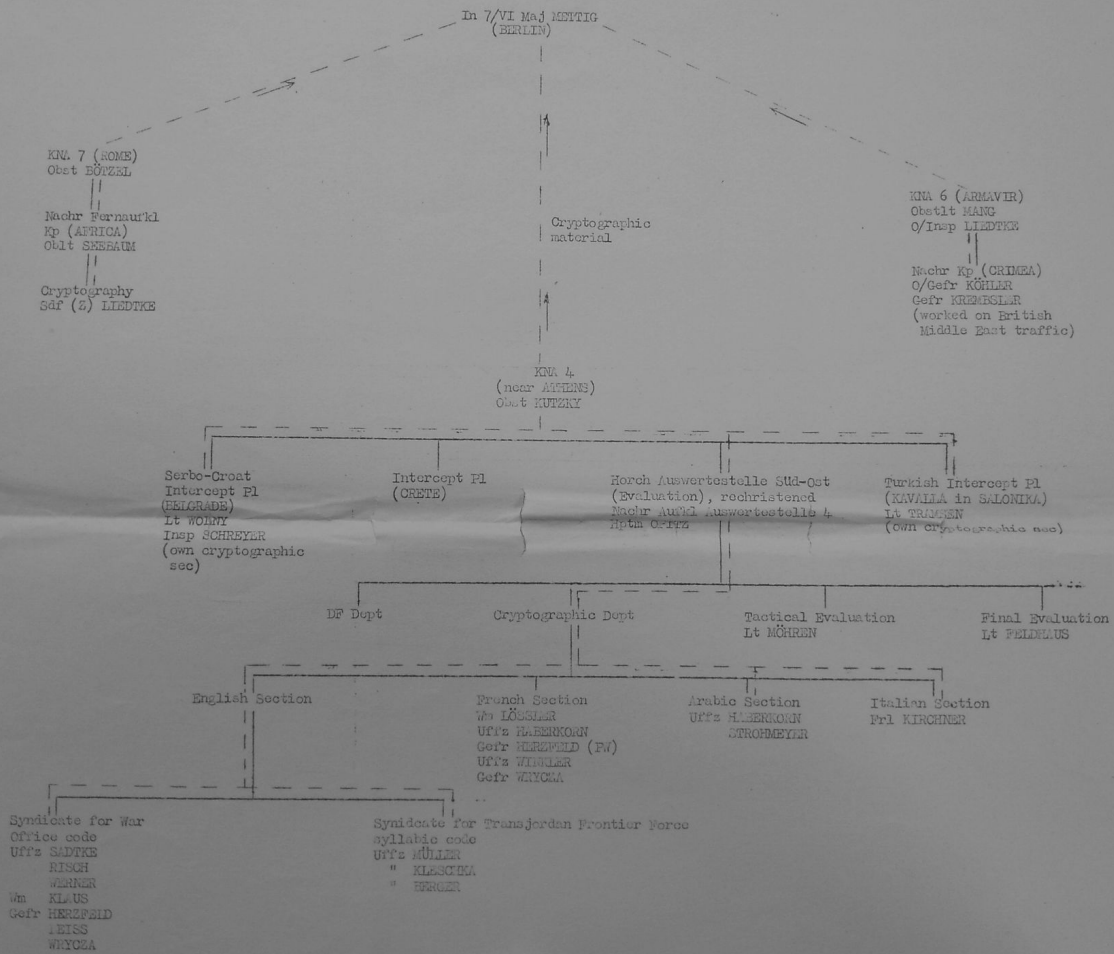
:
Turkish Section
Wm ILGNER

C.S.D.I.C. (U.K.)
8 Jul 45

TOP SECRET
S.I.R. 1704

APPENDIX 6

ORGANISATION OF CRYPTOGRAPHIC WORK WITHIN THE GERMAN "Y" SERVICE
IN THE NEAR AND MIDDLE EAST IN 1942



APPENDIX 7

PERSONALITIES

1. ACKENHEIL
Swedish interpreter and cryptographer. Worked in American Referat in In 7/VI in 1944. Anti-Nazi.
2. ANDERS
English interpreter and cryptographer. Uffz in American Referat in In 7/VI in 1944. Political background unknown. High school teacher of history.
3. ANGELIDES
Greek and Turkish interpreter and cryptographer. Uffz in Balkan Referat in In 7/VI during 1942-44. Political background unknown. Not very trustworthy in business; of Greek descent. Lived in ISTANBUL before the war. Tall; fair.
4. ARNOLD
English interpreter and cryptographer in American Referat in In 7/VI in 1944. Nazi. Believed to be Gefr.
5. BALLOVIC
Serbo-Croat interpreter and cryptographer. Regierungsrat and head of BalkanReferat in In 7/VI since before 1942; Oberregierungsrat in 1943. Was compelled by Major LECHNER to resign from Balkan Referat early in 1944 and to take over Hauptreferat Sprachen, probably in consequence of an intrigue of Maj LECHNER and Sdf (Z) GAISSLER. Head of the "Bailovic Party" inside In 7/VI. Well acquainted with Obst KETTLER and Obst HASSEL. Age 60; born in SARAJEVO, of Austrian descent; served as an officer in TRIESTE; Colonel in the Austro-Hungarian Army and head of the Austrian cryptographic dept during World War I. Outstanding personality and very popular with his staff. After 20 Jul 44 Maj LECHNER put BALLOVIC at the disposal of OKW/Chi. This dept employed him in a section at JÜTERBOG, Turmkaserne. An attempt to have BALLOVIC restored and Maj LECHNER sent away, on the strength of a letter to HIMMLER (as G-in-C Home Forces), written by Uffz FILIPITSCH and taken to Ogruf JUETTNER by Frau HERZFELD failed, since BALLOVIC was very anti-Nazi and was known as such in higher circles.
6. BATTLEHNER
English interpreter in 3rd Coy/NDE u AA REISSEN; went to BERLIN to 2nd Coy/Nachrichten Aufklärungs Abt on 15 Aug 41 and underwent training as a cryptographer. Sent to KNA, probably to BERGEN, NORWAY. Austrian. Father owned an hotel in VIENNA; acquaintance of Maj MANG. Tall; 30 years of age. Political background unknown.
7. BAUER, Rudi
Serbo-Croat interpreter and cryptographer; posted from Eastern Front to 4th Coy Nachrichten Betriebs Abteilung in Oct 42 as Gefr. In 1943 Uffz in Balkan Referat in In 7/VI. Specialised in Mihailovitch traffic (double transposition key). Political background unknown. Age 28 years; medium height; brown hair.
8. BERGER
English and Polish interpreter. Uffz at Horch Auswertestelle Süd Ost in 1942. Worked on Transjordan Frontier Force (syllabic cipher). Lived for some time near ZAKOPANE, POLAND. Political background unknown. Age 28 years; tall; dark.

APPENDIX 7

(Sheet 2)

9. BEYER, Hugo
English interpreter and cryptographer; also has knowledge of Czech and French languages. Went from 3rd Coy NDE u AA MEISSEN to BERLIN, 2nd Coy Nachrichten Aufklärungs Abteilung on 15 Aug 41 and took part in training as cryptographer. From Oct 41 till the spring of 43 worked in English Referat in In 7/VI on Middle East traffic and War Office Code. Anti-Nazi. Born and lived in PRAGUE. Father Intendanturrat in German Army. Although of German descent, has strong Czech sympathies. BEYER was sent to ROM and probably on to SICILY or TUNISIA. Rumours said he had been captured in TUNISIA in May 43.
Tall; brown hair; bald; wears spectacles.
10. BILDT, Dr. Heinrich
Italian interpreter and cryptographer; worked as Sdf (G) in Italian Referat in In 7/VI in 43 until the latter was dissolved. Joined Agents Referat under VAUCK in Dec 43.
Nazi. Was arrested by Gestapo in 1944 for black market activities.
Tall; fair; age 33.
11. BLÜMEL, Holmut
Mathematician and cryptographer, worked in Mathematical Referat in In 7/VI in 1943 and 1944.
Uffz; anti-Nazi.
12. BÖHRISCH
Uffz. Worked in Sprachforschungs Referat in In 7/VI in 1944. Went to ONN/Chi on 1 Oct 44. Political background unknown.
Tall; greying hair; wears spectacles.
13. BOGASCHELSKI
French interpreter and cryptographer. Uffz in French Referat in In 7/VI in 1944. Political background unknown.
Short; fair hair; blue eyes.
14. BOLDT
French interpreter and cryptographer; worked as Gefr and Uffz in French Referat in In 7/VI from 1942 till 1944. Must have intimate knowledge of internal affairs of French Referat in In 7/VI.
Tall; dark; Spanish type of face.
15. BOSCHMANN (M)
Turkish interpreter and cryptographer. O/Gefr at HASSO (Horchauswertestelle Südost) in spring of 1942. Went to SALONIKA with Lt TRAMSEN in Jun 42. Lived in ISTANBUL before the war.
Medium build; fair; thin; wears spectacles.
16. BOSCHMANN, Hans
Turkish interpreter and cryptographer. Uffz at Balkan Referat in In 7/VI in 1943 and 44. Brother of the former. Nazi sympathies.
Medium build; fair; fat.
17. BOURCHIGNON
French interpreter and cryptographer. Uffz in French Referat in In 7/VI. In summer of 1944 transferred to Sprachforschungs Referat in In 7/VI. In Oct 44 transferred to IWA 5 at GLESSLEN. Unknown whether he went on to UMGSTERN or stayed at GLESSLEN. Political background unknown.
Medium build; dark; pale face; age 27 yrs.
18. BRAYVOGL
English interpreter and cryptographer. Uffz in English Referat in In 7/VI until summer 1944. Worked as clerk, not interpreter. Political background unknown.
Short; dark.

APPENDIX 7

(Sheet 3)

19. DÜCHNER, Dr
English cryptographer. Worked as civilian in English Referat in In 7/VI before 1941. Posted as Sdf (G) in the Wehrmacht in winter 1942/43. Important man; should have good knowledge of work done in English ciphers other than War Office Code. Still at JÜTTERBOG in Dec 44. Anti-Nazi. Age approx 45 yrs; tall; grey hair.
20. BÜRCHLIN, Dr
English interpreter and cryptographer; Wachtmeister and head of English section of cryptographic group at Horchhauswertestelle.Südost, ATHENS. Promoted Lt in summer 1942. Said to have remained in command of rear party at KIFFISSIL when IMA 4 went to BELGRADE. Anti-Nazi. Tall; brown hair.
21. BURBIL, Dr
Turkish interpreter and cryptographer. Speaks fluent Polish and Hungarian and has a good knowledge of English, French, Finnish, Russian, Spanish and some Persian, Hindustani, Urdu, Greek, Armenian and Georgian. Uffz in Balkan Referat in In 7/VI from 1942 till 1 Dec 44. Worked on Turkish ciphers (diplomatic code); transferred to IMA 5 at GIESSEN; went to UNGSTEIN; said to have returned to JÜTTERBOG in Feb 45(?). Worked on American Slidex at IMA 5. Age 33 years; tall; heavy build; fair hair; blue eyes. BURBIL comes of a HAMBURG merchant family of French descent. He was a commercial interpreter at HAMBURG, Johnsallee. Very anti-Nazi. Will probably have tried to reach HAMBURG, where his wife lives. A keyman and supporter of BALLOVIC.
22. BUTZKE
English interpreter and cryptographer. Uffz in English Referat in In 7/VI in 1942 and 1943. Later transferred. BUTZKE lived for some time in USA. Age 33 yrs; short; dark.
23. Von DENFFER, Dr
Mathematician and cryptographer. Lt in the Mathematical Referat in In 7/VI in 1943, until summer 1944. Political background unknown. Tall; bald, boyish face.
24. DESSAUER
English interpreter and cryptographer. Uffz in American Referat in In 7/VI in 1943 and 1944. Political background unknown. Medium build; fair; big nose; wears spectacles.
25. DÖNNEL, Karl
English interpreter and cryptographer. Formerly Oberfunker and latterly Gefr in English Referat in In 7/VI from Oct 41 till spring 43. Worked on War Office Code and other Middle East ciphers. Was then transferred to TUNISIA, where he was said to have been captured. Could give information on work done in the Middle East section of the English Referat in In 7/VI during 1942. DÖNNEL studied Chinese at the Orientalisches Seminar at BERLIN and had a fair knowledge of the language and writing. Short build; dark; age 27.
26. BRICH, Frau
Nachrichtenhelferin; transferred to Balkan Referat in In 7/VI in Aug 44; proved to be a good cryptographer; good knowledge of Tito traffic; could probably give information about last days of Balkan Referat in In 7/VI. Age 27 yrs; medium build; dark; wears spectacles.

APPENDIX 7

(Sheet 4)

27. DUPLITZER
 Turkish interpreter and cryptographer. Gefr in Balkan Referat in In 7/VI. Was sent to SALONIKA or KAVALLA in autumn 43(?). Lived at ISTANBUL before the war. Political background unknown. Medium build; dark.
28. ESZTEREZY, Count Paul
 Serbo-Croat and Hungarian cryptographer. Right-hand man of BAILOVIC in Balkan Referat in In 7/VI. Exceptionally able. Well-meaning, but not firm towards superiors. Anti-Nazi from the Austrian branch of the ESZTEREZY family. Surprised by Anschluss in 1938, ESZTEREZY was drafted into the German Army in 1939. In in 1942. Family lived at KRMSJUNSTER. ESZTEREZY could give a very full report on all internal affairs in the Balkan Referat in In 7/VI. Tall; dark; haggard; age 29.
29. FALTER
 English interpreter, mathematician and cryptographer. Uffz in the English Referat in In 7/VI 1943 until summer of 1944; then Mathematical Referat in In 7/VI. Political background unknown. Age 34 yrs; medium build; pale face.
30. FASOLD, Dr
 Turkish interpreter and cryptographer. Worked in Balkan Referat in In 7/VI in 1943 and 1944. Political background unknown. Age about 36 yrs; very tall; dark; wears spectacles.
31. FENNER
 Ministerialrat at OKW Chi. His sister was also employed in this section of the OKW. Offices of OKW Chi were at Haus des Freudenverkehrs, BERLIN, Potsdamerstrasse as late as Mar 45.
32. FIALLA
 Hptm and head of the Italian Referat in In 7/VI in 1941. Was sent to ROME to inform the Italians that their ciphers could be easily read. Was succeeded by Uffz MANAICO in summer 1942.
33. FILIPITSCH, Valentin
 Serbo-Croat interpreter and cryptographer. Uffz in the Balkan Referat in In 7/VI since summer 43. Of Windish (Carinthian-Slovene) descent. Speaks Slovene. Took part in "illegal" Austrian Nazi movement before 1938. Later disillusioned; he is very honest and a good Catholic. Age 32 yrs; medium build; dark. BAILOVIC supporter. Wrote letter to HIMMLER to retain BAILOVIC as head of Balkan Referat in In 7/VI.
34. FISCHER
 English interpreter and cryptographer. In the English Referat in In 7/VI since May 41. Later transferred. Last with Nachr Aufkl Auswertestelle 3 (?) in the ALSACE bridgehead in 1944. Lived in CHINA before the war.
35. FISCHER, Peter
 English interpreter and cryptographer. Also very good knowledge of Arabic. Gefr in the Middle East section of the English Referat in In 7/VI since 1942. Was sent to TUNISIA in spring 1943 and probably captured there. Medium; dark; wears spectacles.
36. FLEIG
 Greek interpreter and cryptographer. In the Balkan Referat in In 7/VI as Uffz 1942 till 1945. Must have intimate knowledge of all traffics of MIAS, EDES and British Agents in GREECE. Civilian occupation: Headmaster of a secondary school. Age 36 years; medium build; dark.

APPENDIX 7

(Sheet 5)

37. FÖLLER, Georg
English interpreter and cryptographer. Funker in the English Referat in In 7/VI in 1943. Was sent to INA 4 in summer 1943. Had invented a new weapon for use against enemy aircraft which was, however, not accepted by the Heereswaffenamt. Owned a small factory in BERLIN-STIGLITZ which manufactured electric control devices for the LW. Political background unknown.
Medium build; dark; wears spectacles; age 32 yrs.
38. FÖLTL
Mathematician. Uffz in the Mathematical Referat in In 7/VI in 1943 and 44. Political background unknown; probably former member of the HJ.
Tall; fair; spectacles.
39. FORMÜLLER, Leo
Mathematician and cryptographer. Uffz in the Mathematical Referat in In 7/VI in 1943 and 44.
Anti-Nazi.
40. FUNKER, Gerhard
Italian and French interpreter and cryptographer. Worked in Italian Referat in In 7/VI 1943 till the latter was amalgamated with the French Referat in In 7/VI. Transferred to a INA (??) in summer 1944.
Very anti-Nazi, but took part in training of HJ members to spread non-Nazi ideas. Civilian occupation: high school teacher.
Tall; brown hair; spectacles. Very intelligent.
41. GASSNER
Cryptographer. Gefr, later O/Gefr in Balkan Referat in In 7/VI in 1942 till 1944. Worked on Turkish and Serbian (MIHAILOVITCH) traffic. Specialised in double transposition keys. Political background unknown.
Age 25 yrs; medium build; dark; wears spectacles.
42. GEISSLER, Josef
Sdf (Z) in the Balkan Referat in In 7/VI and deputy chief of that Referat.
43. GLAAS, Gerhard
English interpreter and cryptographer. In English Referat in In 7/VI from 1943 till summer 1944. Transferred to INA 6. Uffz in 1944. Speaks good Spanish, French and some Portuguese.
Tall; dark; age 29. Sudeten German from a suburb of PILSEN.
44. GLANER
Serbo-Croat interpreter and cryptographer. Head of the Mihailovitch group in the Balkan Referat in In 7/VI. Uffz. Political background unknown. Reliable, much thought of by BAILOVIC.
Age: approx 35; tall; brown hair.
45. CLAUBERT or KLAUBERT
Serbo-Croat interpreter and cryptographer. Uffz in Balkan Referat in In 7/VI; specialised in double transposition key. Very able cryptographer.
Age: approx 32; tall; fat; fair.
46. GRADISCHNIGG, Erich
Serbo-Croat interpreter and cryptographer. Uffz in Balkan Referat in In 7/VI since 1942. Worked on Mihailovitch and Tito traffic; able. Political background unknown.
Age: approx 33 yrs; medium build; fat; fair.
47. GROSS
Civilian cryptographer; speaks English. Worked in American Referat in In 7/VI during 1944. Nazi. Lived in RUSSIA until 1920. Born in ST. EMILERSBURG; interned in the MZIAN district. Worked with INA 3 in MINSK until 1943.
Age: approx 45 yrs; short; fair.

APPENDIX 7

(Sheet 6)

48. GROSSE
Turkish interpreter and cryptographer. Sdf (G) in the Turkish section of the Balkan Referat in In 7/VI. Armenian descent.
Age: approx 40 years; short; dark; typical Armenian in looks.
49. GRUBER
Uffz, instructing new personnel under Oberinspektor KÜHN. Was in CHINA and MANCHUKUO before the war.
Age: approx 45 years; medium build; grey.
50. HABERMORN
English, French and Arabic interpreter. At Horch Auswerte Stelle Südost in 1942 as Gefr. Worked first on Arabic messages. In Aug 42 transferred to French section, worked on Central African de Gaulle codes.
Political background unknown.
Medium build; dark.
51. HACKENBERG
Serbo-Croat interpreter and cryptographer. O/Gefr in Balkan Referat in In 7/VI 1942 till 1945. Worked on Croat State and Ustasha ciphers.
Political background unknown.
Medium build; dark; wears spectacles.
52. HAGER
Turkish interpreter and cryptographer. At In 7/VI since 1941.
Uffz in Balkan Referat in In 7/VI since 1944. Was transferred in 1944, probably to KNA 4 at BELGRADE.
Tall; dark; typical Turkish appearance.
53. H Aidan
Russian and English interpreter and cryptographer. Worked in the Russian cryptographic department, which was at LOETZEN, at the end of 1943 and in 1944 until it moved to JÜTERBOG II in the late summer of 1944. HAIDAN joined the English Referat in In 7/VI in Nov 44 and was transferred to KNA 5 in the beginning of Dec 1944. Political background unknown.
Medium build; fair; age approx 30 years.
54. HARMS
Kriegsverwaltungsinspektor. Speaks English. Worked in English Referat in In 7/VI 1942 till autumn 1943. Could give information about work on English traffics other than War Office Code. Anti-Nazi.
Medium build; fat; age approx 50 yrs; bald.
55. HARTMANN
Serbo-Croat interpreter. Gefr in Balkan Referat in In 7/VI, 1943 till 1945. Born and lived in YUGOSLAVIA, mostly at BANJA LUKA and FOCA. Political background unknown.
Medium build; fat; brown hair.
56. HASSEL
Oberst, Chef In 7/VI until 20 Jul 44, when he was to be transferred to NORWAY. Gemmaj ARNOLD, at that time Nachrichtenführer for NORWAY, was selected to replace him. HASSEL was, however, arrested by the Gestapo.

APPENDIX 7

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57. NATZL, Willi
Serbo-Croat interpreter and cryptographer. Uffz in Balkan Referat in In 7/VI 1943 till 1944. Worked on Mihailovitch and Tito traffic. Travelled a lot in SERBIA before the war; was employed by the sales dept of I.G. Farben at LEVERKUSEN as an advertising agent. Anti-Nazi. Age: approx 33 years; medium build; fair.
58. HEHLEN, Hans
English interpreter and cryptographer. Worked in English Referat in In 7/VI in 1943, was transferred to SALONIKA but returned later in 1943 to English Referat in In 7/VI. Transferred to KNA 5 in 1944. Worked on War Office Cipher and American slidex. Last rank was that of Uffz. Lived in CAIRO before the war. Married to a Maltese woman. Medium build; grey hair; age approx 34 yrs.
59. HEHLEN, Wolfgang
Brother of the former; English interpreter and cryptographer. Worked in English Referat in In 7/VI 1942 till summer 1944 especially on manoeuvre traffic. Uffz, transferred to KNA 5 in 1944, where he worked on American slidex. Medium build; dark. Born in EGYPT. Age about 32.
60. HEIENBROK
Greek interpreter and cryptographer. Worked in Balkan Referat in In 7/VI 1942 till 1945. Uffz. Specialised in British agents' traffic in GREECE, double transposition keys. Political background unknown. Tall; haggard; age 35.
61. HELL, Werner
English and French interpreter and cryptographer. Transferred to In 7/VI from 3rd Coy NDE u AA HEISSEN in Sep 41. Specialised on War Office Cipher in English Referat in In 7/VI. Transferred to KNA 4 at ATHENS Jan till Jul 42. Returned to In 7/VI. Again transferred, this time to MONTPELLIER, FRANCE. Possibly with KNA 6 in Dec 44. Last rank Uffz. High school teacher of languages. Tall; dark; age 30.
62. HERBRÜGGEN
Major in In 7/VI 1941 till Sep 43. Transferred to OKW/Chi (?). Replaced by Hptm Dr HACKER. Austrian descent. In charge of personnel matters. Political background unknown. Short; fat.
63. HERMANN
French interpreter and cryptographer. Uffz in French Referat in 1943 and 1944. Transferred to KNA 5 in 1944. Political background unknown. Tall; slim; dark. Age approx 35.
64. HERZFELD, Clare
English interpreter, also French and Spanish. Transferred to In 7/VI Sprachforschungsreferat in Aug 44 from Kommandantur Stalag IIID. Transferred to OKW/Chi on 1 Oct 44. Last at HALLE (SAALE) with Sprachforschungsreferat of SdF (Z) KÖHLER. Took "Filipitsch" letter to OKW. Anti-Nazi. Good Catholic. Age about 56. Medium build; dark. Civilian residence now at HEIDELBERG, Wredeplatz 4.

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65. HILBURG
 Mathematician and very good cryptographer. Mathematical Referat in In 7/VI in 1944. Political background unknown. Strong supporter of Maj LECHNER.
 Age approx 32 yrs; tall; fair.
66. JARUSKE, Fräulein
 At In 7/VI from 1941 till 1945. Secretary to the Gruppenleiter (commanding officer of In 7/VI) Adherent of the LECHNER Party. Should have good knowledge of most internal affairs of In 7/VI.
 Age 37 yrs; tall; dark.
67. JESSE
 French interpreter and cryptographer. Uffz in French Referat in In 7/VI till 1944. Transferred to KNA 5. Political background unknown.
 Medium build; fat; fair.
68. JUNGHANS
 English interpreter and cryptographer. English Referat in In 7/VI in 1944. Anti-Nazi.
69. KAISER, Erich
 Swedish interpreter and cryptographer. Uffz in American Referat 1943 and 1944. Anti-Nazi.
 Age: approx 35 years, medium build; bald.
70. KALTENBRUNNER
 English interpreter and cryptographer. American Referat in In 7/VI in 1944. Uffz. Nazi.
 Age: approx 32 yrs; tall; fair; Austrian descent. Nephew of Ogruf KALTENBRUNNER.
71. KALFMANN, Alfons
 English interpreter and cryptographer. Speaks French and some Arabic. In 1941 (Aug) Uffz at English Referat in In 7/VI. Worked on War Office Cipher. In late autumn 1942 transferred to SICILY and possibly N AFRICA.
 Medium build; fair; age approx 30.
72. KANNMEYER
 English and French interpreter and cryptographer. In Dec 44 at KNA 5.
 Wm. Nazi.
 Age: approx 34 years; short; fair.
73. KANZ, Ida, Fräulein
 Italian interpreter; typist in the Italian Referat in In 7/VI in 1943 and French Referat in In 7/VI in 1944. Transferred in summer 1944.
 Age about 28; medium build; brown hair.
74. KAPPLER, Erich
 Serbo-Croat interpreter and cryptographer. Gefr in Balkan Referat in In 7/VI in 1943 and 1944. Good brain. Born in ZAGREB, YUGOSLAVIA and lived there until 1942, when he went to GERMANY to continue his studies (chemistry) and to avoid being drafted into the Croatian Army. Father Austro-Hungarian citizen, emigrated to the ARGENTINE. KAPPLER also lived there for several years when a child. Mother still living at ZAGREB. Anti-Nazi.
 Age 26 yrs approx; short; dark.
75. KEHREN
 Mathematician. Uffz in Mathematical Referat in In 7/VI in 1944.
 Anti-Nazi. Catholic Priest.

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76. KEERN
Serbo-Croat interpreter and cryptographer. Uffz in Balkan Referat in In 7/VI, 1942 to 1945. Specialised in Mihailovitch traffic (double transposition key). Political background unknown. Austrian. Age about 27; medium build; dark.
77. KETTLER
Oberst in OKM/Chi. Friend of Oberregierungsrat BAILOVIC.
78. KEYDEL
French and Spanish interpreter and cryptographer. Uffz in French Referat in In 7/VI 1943 and 1944. Lived in MADRID and had relatives there. Went to SPAIN on holiday in summer 1944. Short; brown hair; wears spectacles.
79. KINDLER, Werner
English and Russian interpreter and cryptographer. Speaks Polish, French and some Arabic. Transferred to In 7/VI from 3rd Coy NDE u AA MEISSEN in Aug 41. Went to PYATIGORSK and ARLAVIR (North CAUCASUS) under Oberinspektor LIEDTKE in summer 42 to work on War Office Cipher. At KNA 3 in MINSK from autumn 42 till summer 43 worked on Russian Army and Partisan ciphers. Returned to English Referat in In 7/VI in 1943 until winter 1943/44 when he became an Uffz in French Referat. Later transferred. One of the few idealists in the Nazi Party, of which he was a member. Very unselfish. Catholic. Home in UPPER SILESIA. Age: approx 30 yrs; medium build; dark.
80. KIROCHKOFF
Serbo-Croat interpreter. O/Geft in Balkan Referat in In 7/VI. Worked on Mihailovitch and Croatian state traffic. Political background unknown. Medium build; dark; curly hair; age; approx 28 years.
81. KIRCHNER, Fräulein
Italian interpreter and cryptographer. One of the oldest members of In 7/VI. At KNA 4 in ATHENS in 1941. Transferred to Italian Referat in 1943. Personally acquainted with General FELLGIEBEL. Had an intimate knowledge of Italian Army affairs and ciphers. At French Referat as late as Dec 1944. Age: approx 55 years; medium build; white hair.
82. KLAUS, Hermann
English interpreter and cryptographer. Transferred from 3rd Coy NDE u AA MEISSEN to In 7/VI in Sep 41. Wm in English Referat in In 7/VI - worked on War Office Cipher. Head of the War Office Cipher group sent to KNA 4 at ATHENS in Jan 42. Returned to In 7/VI in Mar 42. Continued work on War Office Cipher unsuccessfully until transferred to MONTPELLIER, FRANCE, in autumn 42. Probably at one of the KNAs in Western GERMANY until spring 45. Good brain. Lived at PLAUEN, SAXONY. In the fur business. Travelled in the USA and AUSTRALIA before the war. Political background unknown. Medium build; dark; wears spectacles.
83. KLEINECKE, Fritz
English interpreter and cryptographer. O/Geft in English Referat in In 7/VI 1941 till summer 1944, then transferred to KNA 5 at GIESSEN. Worked on English ciphers other than War Office Cipher and on American slidex. His uncle, a Genlt, was obviously informed of the plan to remove HITLER, for KLEINECKE indicated to PW as early as spring 43 that such plans existed.

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84. KLEINER
 English interpreter and cryptographer. Wm in Balkan Referat in In 7/VI
 1942 till 1945. Specialised in British agents' traffic in GREECE
 (double transposition key). Good brain. Nazi.
 Medium build; brown hair; age approx 34 years.
85. KLESCHKA, Dr
 English interpreter and cryptographer. Also speaks Czech and Hungarian.
 In 1942 at the English section of the Horch Auswerte Stelle Südost in
 ATHENS. Specialised in syllabic code. Very able cryptographer.
 Political background unknown.
 Age 37 yrs approx; tall; dark; wears spectacles.
86. KLUGE, Dr
 Italian and French interpreter and cryptographer. At the Italian Referat
 in In 7/VI in 1943, taken over by French Referat in In 7/VI. Political
 background unknown.
 Tall; bald; wears spectacles.
87. KNESCHKE, Dr
 English interpreter and cryptographer; also mathematician. In 1942
 Oblt and head of the cryptographic department of the Horch Auswerte
 Stelle Südost at ATHENS. In peacetime a high school teacher of
 mathematics. Nazi. Went with KNA 4 to BELGRADE and WIENER NEUSTADT.
 After 20 Jul transferred to In 7/VI to replace BAILOVIC. At first
 neutral, soon joined LECHNER Party.
 Tall; fair.
88. KOCHENDÖRFER
 Mathematician. Uffz in Mathematical Referat in 1944. Anti-Nazi.
89. KÖHLER
 Stf (Z), Head of the Referat in In 7/VI for linguistic research
 (Sprachforschungsreferat). Has belonged to In 7/VI since before 1941.
 His Referat was transferred to OKW/Chi on 1 Oct 44 and moved from
 JÜTERBOG II, Hindersinkaserne, to BERLIN, Potsdamerstr, Haus des
 Fremdenverkehrs. KÖHLER speaks several languages. It was said that
 he even knew some Malayan.
 Age 38 to 40; short; dark.
90. KÖHLER
 English interpreter and cryptographer. Oberfunker in English Referat
 in In 7/VI in 1942 and 1943. Probably came to In 7/VI in Sep 41. Was
 sent to the CRIMEA but returned to In 7/VI early in 42. Worked on
 War Office Cipher 1943 traffic. In winter 1943/44 transferred to KNA 7
 (ROME). Was said to have been captured by American troops or Italian
 partisans and to have escaped from them (?).
 Age about 24; medium build; dark.
91. KÖPP
 Mathematician and cryptographer. Uffz in Mathematical Referat in
 In 7/VI 1943 and 44. Very able cryptographer. Political background
 unknown.
 Age: approx 30 years; medium build; fair; wears spectacles.
92. KORN
 English interpreter and cryptographer. As a Wm he returned to the
 English Referat in In 7/VI in spring 44. Political background unknown.
 Medium build; brown hair.

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93. KRATOCHVIL, Dr
Italian interpreter and cryptographer. Uffz in Italian Referat in In 7/VI. Transferred to Agents Referat under Oblt VAUCK in Nov 43. Nazi of the most malignant type, called "The Politruk" at In 7/VI. Said to have been responsible for sending a member of the staff to a concentration camp. Of Austrian and Czech descent. Medium build; fair hair.
94. KREBSLER, Hans
English interpreter and cryptographer. O/Gefr in English Referat in In 7/VI, Oct 41 to summer 42. Sent to a Nachrichtenfernaufklärungskomp in the CRIMEA. Returned to English Referat in In 7/VI in 1942, worked on War Office Cipher. Sent to GREECE in spring 43. Escaped the air raid on LARISSA station in summer 44, when the rear party of KN. 4 was evacuated from ATHENS. Very diligent and has a good brain. Anti-Nazi. Lived at FRANKFURT a/M. Approximate age 27; short; dark.
95. KÜHN, Dr
Obinsp, leader of the training section for new cryptographers. Probably one of the best brains in In 7/VI. At JÜTTERBOG II in Dec 44.
96. KÜHN
Sdf (Z) and head of the French Referat in In 7/VI since 1941. A member of the LECHNER party and therefore promoted Regierungsrat after 20 Jul 44. Short; fair hair; pale face.
97. KUNZEL
Hungarian interpreter. Uffz in Sprachforschungs Referat in In 7/VI. Went to OKW/Chi on 1 Oct 44. KUNZEL is also an expert on telecomms. Approximate age 30; short; brown hair.
98. KURNITZKI
English interpreter and cryptographer. Was in American Referat in In 7/VI. Worked on X-machines. Transferred to KNA 5 in Nov 44. Political background unknown. Approximate age 30; tall; dark hair.
99. LECHNER
Major. Gruppenleiter of In 7/VI. Said to have been formerly Ia to Obst HASSEL. Replaced Major METTIG as Gruppenleiter in Jul 43. Married Frä JONAS, a secretary at In 7/VI. Head of the LECHNER party at In 7/VI, which represented the Nazis as opposed to the BAILOVIC party which was mainly anti-Nazi but held the most able personnel. LECHNER had no qualifications for the post he held. He spoke no languages and had no knowledge whatever of cryptography. Possibly in consequence of the "Filipitsch" letter he was transferred to the West to become KNA 6 shortly after he had succeeded in having BAILOVIC removed from In 7/VI. Approximate age 36; medium; bald.
100. LEISS, Hermann
English interpreter and cryptographer. Uffz in English Referat in In 7/VI since Sep 1941. Sent to KNA 4 at ATHENS as member of War Office Cipher group. Returned in Sep 42. Went to MONTPELLIER, FRANCE, in Dec 42. Probably at one of the KNAs on the Western Front in 1945. LEISS was employed in the export business and lived for some years in PEKING. Speaks English, French and some Chinese. Lived at HALBURG. Nazi (?). Approximate age 35; medium height; heavy build; dark hair.

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101. LIEDTIG
 Obinsp. Best cryptographic brain in In 7/VI, apart from Obinsp KÜHN.
 At English Referat in In 7/VI in 1941. Discovered solution of War
 Office Cipher in Middle East. Went to CAUCASUS under Obstlt LANG in
 summer 1942. Transferred to KNA 5 at PARIS in Nov 42. Remained at
 GIESSEN, when Kdr 5 moved to UNGSTEIN on 27 Dec 44.
 Approx age 40; tall; dark hair; Slavonic appearance. 111.
102. LIEDTIG
 SdF (Z). Head of the cryptographic section of Oblt SEIBAU's
 Nachrichten-Aufklärungskompanie AFRICA. Managed to escape with his
 cryptographic section when SEIBAU was captured by British 8th Army
 Troops in summer 1942.
 Approx age 32; medium build; fair hair. 112.
103. LÖSSLER (?) (or LÖFFLER)
 English, French and Russian interpreter and cryptographer. Good brain.
 Head of the French section of the cryptographic dept at the Horch
 Auswerte Stelle SMOst in ATHENS in 1942. Anti-Nazi. Austrian from
 VIENNA.
 Approx age 35; short build; dark. 113.
104. LORENZ, Karl
 English interpreter and cryptographer. Uffz in English Referat
 in In 7/VI 1942 until transferred to a KNA in the West in summer 1944.
 Anti-Nazi.
 Approx age 32; medium build; fair hair. 114.
105. LÜDERS
 Oblt and head of the Mathematical Referat in In 7/VI in 1942.
 Transferred to KNA 4 at WIENER NEUSTADT in summer 1944.
 Approx age 30; tall; fair hair; spectacles. 115.
106. LUZIUS, Dr
 English interpreter, cryptographer and mathematician. Uffz in American
 Referat in In 7/VI in 1943 and 1944. Excellent brain. Specialised in
 X-machines. Transferred in 1944. Political background unknown.
 Approx age 30; tall; fair hair; wears spectacles. 116.
107. MAGNUSSEN
 English interpreter. Gefr in American Referat in In 7/VI in 1944.
 Married a daughter of THYSSEN, of the German Steel Trust. 117.
108. MAHR, Gustav
 English interpreter and cryptographer. Gefr in English Referat in
 In 7/VI in 1943. Transferred to TUNISIA, where he was said to have
 been taken prisoner. Lived in DUBLIN.
 Age 27; medium build; fair hair. 118.
109. MAIRITSCH, Franz
 Serbo-Croat interpreter and cryptographer. Uffz in Balkan Referat
 in In 7/VI. Worked on Mihailovitch traffic. Brother of Josef
 MAIRITSCH.
 Age 29; medium build; dark hair. 119.
110. MAIRITSCH, Josef
 Serbo-Croat interpreter. O/Gefr in Balkan Referat in In 7/VI. Worked
 on Mihailovitch traffic. Lived at KLAGENFURT, AUSTRIA. Catholic.
 Age 34; medium build; dark hair. 120.

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111. MANAICO
Italian interpreter and cryptographer. Uffz and head of the Italian Referat in In 7/VI after Hptm FIALLA had left In 7/VI. Transferred to Agents Referat in In 7/VI in Nov 43. Said to have been in N ITALY at the end of 1944. Political background unknown.
Age 34; medium build; dark hair.
112. LANG
In 1941 was Gruppenleiter in In 7/VI. Promoted to Obstlt when transferred to the CAUCASUS in summer of 1942.
113. MARQUARDT
Served with the Police force for 6 months. Was employed as a cryptographic instructor in In 7/VI under Obinsp KÜHN. He was then a civilian, and was drafted into the Army in 1942 as Sdf (Z) in the Mathematiker Referat in In 7/VI in 1943. Became head of that Referat in summer 1944. Belonged to Lechner party. Was promoted Regierungsbaurat in Sep 1944. A good brain, political background unknown.
Approximate age 36; tall; dark.
114. MATTUTAT
Italian. English and French interpreter and cryptographer. In Italian Referat in In 7/VI in autumn 1943. Later in French Referat in In 7/VI. Political background unknown.
Approx age 32; medium build; bald; wears spectacles.
115. MEISINGER, Otto
Mathematician and cryptographer. Gefr in English Referat in In 7/VI. Anti-Nazi. In civilian life an expert on long wave problems for Telefunken.
Approx age 33; tall; bald.
116. METTIG
Major. Gruppenleiter of In 7/VI from summer 1942 until Jul 1943. Later transferred to OKW/Chi. The most intelligent and best-informed Gruppenleiter of In 7/VI during the war. Probably anti-Nazi.
Approx age 40; medium build; fair hair.
117. MICHALKE, Karl Heinz
Swedish interpreter and cryptographer. Gefr in American Referat in In 7/VI in 1943 and 1944. Probably anti-Nazi.
118. MÜLLER
English interpreter and cryptographer. Uffz and head of the group in the English section of the Horch Auswerte Stelle Südost cryptographic dept, working on Transjordan Frontier Force traffic (syllabic) in 1942. Probably a member of the Nazi party. Later promoted Wachtmeister. Was still at KNA 4 in 1944.
Approximate age 38; medium build; red hair; wears spectacles.
119. MÜLLER
English interpreter and cryptographer. Wachtmeister in American Referat in In 7/VI in 1943 and 1944. Nazi party member.
Approx age 35; medium build; fair hair.
120. NOVAK
Mathematician and cryptographer. Uffz and cryptographic instructor under Obinsp KÜHN in 1942. Later promoted Wm. Was still at In 7/VI in 1944.
Approx age 33; medium build; dark hair; wears spectacles.

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121. NOVACK, Frau
Cryptographer. Employed in the Mathematical Referat in In 7/VI in 1944 as a Stabshelferin.
Approx age 27; medium build; fair hair.
122. OBERMEYER
Oblt. On the staff of KNA 4 at ATHENS in 1942. Became Comd of a Nachrichtenfernaufklärungsgruppe in RUSSIA. Nazi.
Approx age 30; tall; fair hair.
123. PANTEL
Greek interpreter and cryptographer. Uffz in the Balkan Referat in In 7/VI in 1943 and 1944. Transferred to KNA 4 at BELGRADE in the summer of 1944. Nazi.
Approx age 33; medium build; bald.
124. PETRING
English interpreter and cryptographer. At English or American Referat in In 7/VI in 1944.
125. PIETSCH, Dr
Promoted Sdf (K) in autumn 1941. At Mathematical Referat in In 7/VI in 1943 and 1944. Bailovic party. Transferred in 1944. Political background unknown.
Tall; fair hair; wears spectacles.
126. POBER, Robert
Serbo-Croat interpreter. At 2nd Coy NDE u AA LEISSEN; teacher of Serbo-Croat. Speaks English. O/Gefr in Balkan Referat in In 7/VI in spring of 1943 up to 1945. Lived in SLAVONIA, YUGOSLAVIA before 1942.
Approx age 33; medium build; dark hair.
127. POKORN
English interpreter and cryptographer in American Referat in In 7/VI, Gefr, in 1944.
Approx age 35; short; dark.
128. PROBST
English interpreter. Gefr at Horch Auswerte Stelle Südost, ATHENS, in 1942. Worked in English section of cryptographic department. Still at KNA 4 in 1943.
Medium build; fair hair; wears spectacles.
129. REINHOLD
English interpreter and cryptographer. Uffz at Sprachforschungs Referat in In 7/VI till autumn 1943. Transferred to Agents Referat in In 7/VI under Oblt VAUCK. Anti-Nazi.
Approximate age 30; tall; fair.
130. RENZ, Paul
English interpreter and cryptographer. Uffz in English Referat in In 7/VI from 1943 to spring 1944. Worked on War Office cipher in summer 1943. Transferred to KNA 5, later (in 1944) KNA 6. RENZ lived in LONDON and PARIS. Worked for Mitropa. Although a member of the Nazi party, RENZ held anti-Nazi opinions.
Medium dark; French-looking.

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131. RANK, Martin
English and Greek interpreter and cryptographer. In 1941 was a Gefr working at the Personal-Abt under Hptm HERDRÜGGEN. Uffz in Balkan Referat in In 7/VI from 1942 to 1945. Specialised in British agent's traffic in GREECE (double transposition key) Anti-Nazi.
Approx age 32; medium build; fair hair; wears spectacles.
132. RICHTER, Frau
Secretary at the Personal-Abt under Hptm HERDRÜGGEN and Hptm HACKER. One of the oldest employees at In 7/VI. Left In 7/VI early in 1945. Bailevic party, anti-Nazi.
Approx age 40; tall; brown hair.
133. RINOW, Dr
Mathematician and cryptographer. Uffz at Mathematical Referat in In 7/VI in 1943 and 1944. Good brain; political background unknown.
Approx age 36; medium build; fair hair; wears spectacles.
134. RISCH, Otto
English interpreter and cryptographer. Uffz in English Referat in In 7/VI since Aug 41. Specialised in War Office Cipher. Sent to ATHENS with War Office Cipher group in Jan 42, returned in Jul 42. Transferred to a KNA.
Approx age 31; tall; brown hair.
135. RITTER, Robert
English interpreter and cryptographer. O/Gefr in English Referat in In 7/VI from Aug 41 till summer 42. Went to the CAUCASUS to work on War Office Cipher, later in 1942 posted to KNA 3 at LINSK. Worked on Russian army and partisan traffic. In summer 1944 transferred to KNA 5 at GIESSEN where he worked on American slidex. Last at UNGSTEIN with KNA 5 in Jan 45. RITTER toured S AMERICA and E ASIA in 1932 and 1933 with a film outfit on behalf of a democratic German Youth organisation. Anti-Nazi. Went back to CANTON, CHINA, as representative of a German optical firm. Lived at CANTON until 1941, when he was called up into the GA through the German consulate in SHANGHAI. Speaks Chinese (both Cantonese and Shanghai dialects.) Lived last at BOMM.
Tall; brown hair.
136. ROHDEN, Herbert
English and Swedish interpreter and cryptographer. Gefr in the American Referat in In 7/VI in 1943 and 1944. Anti-Nazi.
Bailevic party. ROHDEN was a merchant in HAIBURG, also had a house in COLENHAGEN.
Approx age 45; medium build; bald.
137. SADTKE, Erwin
English and Czech, also French and Italian interpreter and cryptographer. Speaks some Arabic. Uffz in English Referat in In 7/VI since Aug 41. Went to Horchhauswertestelle Südost, ATHENS, with War Office Cipher Group in Jan 42, returned to In 7/VI in Jul, but went to ATHENS again in Sep 42. In 1943 transferred to KNA 5 at PARIS and in summer 44 to KNA 6. Lived in JÄGERNDORF, North-Eastern SUDETENLAND. High school teacher of languages.
Approx age 34; tall; dark hair.

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138. SATZECK, Lothar, Dr
 Serbo-Croat and English interpreter and cryptographer. O/Gefr in Balkan-Referat in In 7/VI from 1942 to 45. Worked on Croat State ciphers. Also speaks Hungarian, French and several Slav languages. Very anti-Nazi; Bailovic party. Was educated at Collegium Hungaricum in BERLIN.
 Approx age 37; short; bald.
139. SATZINGER
 English interpreter and cryptographer. Gefr at Horchhauswertestelle Südost, ATHENS in 1942. Worked on TRANS-JORDAN Frontier Force traffic (syllabic).
 Austrian, said to be member of the Nazi Party.
 Approx age 36; medium build; dark hair; wears spectacles.
140. SAUER, Harry
 Turkish interpreter and cryptographer. Uffz at Balkan-Referat in In 7/VI 1942 - 44. Lived in TURKEY before the war. Political background unknown.
 Approx age 37; medium build; fat; brown hair.
141. SCHÄFFER, Karl
 English interpreter and cryptographer. Gefr in English Referat in In 7/VI in 1943 and 44. Lived in FRANKFURT a/MAIN. Political background unknown.
 Approx age 36; medium build; dark hair; wears spectacles.
142. SCHANZ
 English interpreter and cryptographer. Wm in English Referat in In 7/VI 1941 - 45. Worked on all English traffics other than War Office cipher. Has intimate knowledge of work in English Referat in In 7/VI.
 Approx age 37; tall; bald; wears spectacles.
143. SCHENKE
 Kriegsverwaltungsrat. Head of the Hollerith-Abteilung, first at 6 Viktoria Strasse, BERLIN, later at JÜTENDOG.
144. SCHIEUMEN, Karl
 Serbo-Croat interpreter and cryptographer. Uffz in Balkan-Referat in In 7/VI. Worked on Tito traffic. Transferred to KNA 4 in Aug 44.
 SCHIEUMEN lived at a Catholic clerical school at BANJA LUKA, YUGOSLAVIA, but his home was at ERNST on the MOSELLE.
 Anti-Nazi, but needs careful handling.
 Approx age 29; medium build; heavy, black hair; wears spectacles.
145. SCHICHT
 English interpreter and cryptographer. O/Wm in English Referat in In 7/VI 1941 - 45. Specialised in War Office cipher. Good memory. Right hand to Sdr (Z) SCHULZ. SCHICHT served with the German Legion during the Civil War in SPAIN. Nazi.
 Approx age 35; tall, fair hair.

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146. SCHIEDE
English interpreter and cryptographer. Uffz(?) in English Referat in In 7/VI in 1944. Protestant pastor from GREIFSWALD, POMERANIA.
Approx age 38; medium build; fair hair.
147. SCHIMTOVITSCH, Stefan
Serbo-Croat, Hungarian and English interpreter and cryptographer. Uffz in Balkan-Referat in In 7/VI 1943 and 44. Worked on Tito and Croat State traffic. Lived at WIENER NEUSTADT. Family are Croats from BURGENLAND. Strong anti-Nazi.
Approx age 27, tall; fair hair.
148. SCHLLA
English interpreter and cryptographer. Gefr in English Referat in In 7/VI 1943 and 44.
Approx age 36, medium build, dark hair.
149. SCHLINZICK, Eugen, Dr
English interpreter and interpreter for all Slavonic languages, also Finnish and Hungarian. Best cryptographic brain in Balkan-Referat in In 7/VI apart from ESZTERHAZY. An Uffz of strong anti-Nazi views, Ballovic Party. Could give information on all matters concerning In 7/VI and other organisations like OKW-Chi. Entered German cryptographic service as a civilian either before or very early in the war. Has relatives among Polish families in WARSAW, who supported General BOR group. Lived in BERLIN.
Approx age 34; tall; dark hair; wears spectacles.
150. SCHMIDT
English interpreter and cryptographer. English Referat in In 7/VI in 1944. Nazi.
151. SCHMIDT, Karl
Rumanian interpreter and cryptographer. Wm in Balkan-Referat in In 7/VI 1942 to 44. Political background unknown.
Medium build; fair hair; heavy.
152. SCHMIDT, Fräulein
Stabsheiferin at Sprachforschungs Referat in In 7/VI. English, French and Russian interpreter. Ten years at OGH.
Approx age 35; short; dark hair.
153. SCHNEIDER, Johann
Mathematician and cryptographer. Lt AgN/NI in 1944. Anti-Nazi.
154. SCHNEIDER, Rolf
English interpreter and cryptographer. English Referat in In 7/VI in 1944. Nazi.
155. SCHOTT
English interpreter and cryptographer. O/Gefr at English Referat in In 7/VI in 1944. Worked last on American slides. Probably anti-Nazi.
Approx age 40; medium build; brown hair; wears spectacles.

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156. SCHUCK, Clemens
 English interpreter and cryptographer. Geifr at English Referat in In 7/VI in 1943, worked on War Office cipher. Transferred to American Referat in In 7/VI in summer 1943; worked on X-machine and slidex till early in 1945. Transferred to NDE u AA at HALLE, from where he deserted in Apr 45. Last in PARIS detention barracks as an American prisoner of war in Apr 45. Born and lived in NEW YORK. Anti-Nazi of the Ballovic Party. Very intelligent. Approx age 27; medium build; dark hair.
157. SCHULTE
 English interpreter and cryptographer. At English Referat in In 7/VI 1941 - 43. Transferred. Lived at BERGEDORF near HAMBURG. Also worked under Obinsp KÜHN. Approximate age 34; medium build, brown hair.
158. SCHULZ, Dr
 Sdf (Z) in Aug 41. English interpreter, mathematician and cryptographer. Head of the Middle East section of the English Referat in In 7/VI 1942 - 44. When ZILLMANN was transferred, SCHULZ became head of the combined English and American Referat in In 7/VI. He was promoted Regierungsbaurat by LECHNER. Political background unknown. Approx age 30; medium build; fair hair; very intelligent.
159. SEPER
 Hungarian interpreter and cryptographer. Uffz at Balkan Referat in In 7/VI in 1943 and 44. Worked on Hungarian traffic. Is of Hungarian descent. School teacher, lived in BURGENLAND, AUSTRIA, near the Hungarian border. Political background unknown. Tall, bald; typical Hungarian face.
160. SPENGLER
 Swedish interpreter and cryptographer. American Referat in In 7/VI in 1944. Anti-Nazi.
161. STADE
 English interpreter and cryptographer. Wm in English Referat in In 7/VI in 1942. Worked on English Middle East traffic other than War Office cipher. Transferred to KMA 7 in 1943. Political background unknown. Approx age 32; tall; fair hair.
162. Von STAHL-HOLSTEIN, Freifrau
 English interpreter and cryptographer. One of the oldest members of In 7/VI and English Referat in In 7/VI. Ballovic Party. Very anti-Nazi and anti-LECHNER. Well informed about all inter-connections between In 7/VI and OKW/Chi. Transferred to OKW/Chi in Oct 44. Approx age 38; tall, dark hair.
163. STELIBERG, Dr
 Mathematician and cryptographer. Sdf(Z) in 1941. Head of the American Referat in In 7/VI 1942 to Sep 44, when he was transferred to OKI/Chi by LECHNER. Ballovic Party. Approx age 36; tall; fair hair; wears spectacles.

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164. STEIN EDEL, Helmut
 Mathematician and cryptographer. At AgN/NA in 1944.
 Anti-Nazi.
165. STROMBEIER
 English, French and Arabic interpreter. Gefr in crypto-
 analysis dept at Horch Auswertestelle Süd Ost in ATHENS in
 1942. Very good brain. Austrian, probably anti-Nazi.
 Approximate age 32, tall, heavy build, fair hair.
166. TEUCHTLER
 Hungarian interpreter. Uffz at Balkan Referat in In 7/VI
 1942-44. Was then (Jul 44) transferred to NDE u AA, where
 he was a Hungarian interpreter as late as Mar 45. Political
 background unknown.
 Approximate age 33, tall, dark hair.
167. TISCHLER
 English interpreter and cryptographer. At AgN/NA in 1944.
 Possibly a Nazi.
168. TRAISEN
 Turkish interpreter. Wm at Horch Auswertestelle Süd Ost
 ATHENS in 1942. Was promoted Lt in summer 1942 and sent to
 SALONIKA. Zug TRAISEN worked on Turkish traffics and had an
 advanced post at KAVALLA. Political background unknown.
 Approximate age 34, medium build, dark hair.
169. TRILLING, Heinrich
 English interpreter and cryptographer. O/Gefr at English
 Referat in In 7/VI in 1942/43. Worked on War Office cipher.
 Transferred to KNA 7 in summer 43. TRILLING was born in
 AUSTRALIA and lived there until 1920. Very anti-Nazi. Good
 Catholic. Lived at DORTMUND.
 Approximate age 32, medium build, fair hair, wears spectacles.
170. TSCHEUFER, Karl
 Serbo-Croat and Slovene interpreter and cryptographer. Gefr
 at Balkan Referat in In 7/VI in 1943 and 44. Bailovic Party.
 Anti-Nazi. Opted for GERMANI in 1941 to escape arrest by
 Italians occupying his home-town of LJUBLJANA, YUGOSLAVIA.
 Approximate age 26, medium build, dark hair.
171. VAUCK
 Head of the Agents Referat in In 7/VI, and Oblt. This Referat
 in In 7/VI had its offices at Viktoriastrasse 34 (or 35?).
 In autumn 1943, after it had been placed under OKW, it moved
 to DORF ZINNA, about 4 km NW of JÜTTERBOG station.
172. WAGNER
 Roumanian interpreter and cryptographer. Uffz at Balkan
 Referat in In 7/VI in 1944. Political background unknown.
 Approximate age 30, medium build, dark hair.

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173. WASSERMAN, Fräulein
Stabschöfnerin, English interpreter and cryptographer in
American Referat in In 7/VI 1942-45. Very able. Anti-Nazi.
Worked on American X-machine.
Approximate age 25, medium build, fair hair.
174. WEDE EYER
French interpreter and cryptographer. Uffz in French Referat
in In 7/VI in 1944.
175. WEIDT
English interpreter and cryptographer. Uffz in English Referat
in In 7/VI 1942-44. Worked on all English traffics other than
War Office cipher, especially on British Army manoeuvre traffic.
Very reserved politically.
Approximate age 36, medium build, bald.
176. WENCKEBACH
Italian and French interpreter and cryptographer. Uffz in
Italian, later in French Referat in In 7/VI 1942-44. In
summer 1944 transferred to a KMA in the WEST. Anti-Nazi.
Protestant pastor, lived in LESSE.
Approximate age 40, medium build, heavy, brown hair.
177. WERNER, Jürgen
English interpreter and cryptographer at Horch Auswertestelle
Süd Ost in ATHENS. Said to have been killed in summer 1944
during an air raid on LARISSA station.
178. WERTH, Joachim
English interpreter and cryptographer. Uffz at English
Referat in In 7/VI 1943-44. In autumn 44 transferred to
KMA 5 at GIESSEN. Last at UNGSTEIN in Dec 44. Speaks good
Russian. Anti-Nazi.
Approximate age 28, medium build, dark hair, wears spectacles.
179. WIEDENHOFER
Italian and French interpreter and cryptographer. Uffz in
Italian, later in French Referat in In 7/VI 1943-44. Austrian;
lived at INNSBRUCK. Anti-Nazi. Worked in a hotel in
KENSINGTON, LONDON in 1938-39. Being a hotel employee he
knows large parts of Western EUROPE and ITALY. Approximate age
37, medium build, grey hair.
180. WILKE
Sonderführer (G), cryptographer and English interpreter.
In the English Referat since 1942 or even earlier. Probably
civilian employee of In 7/VI. Worked on most English ciphers
other than War Office cipher.
Age 40, tall, dark, haggard.
181. WINKLER, Otto
French interpreter and cryptographer. Uffz at Horch
Auswertestelle Süd Ost in ATHENS, French group of cryptographic
dept. Worked on French De Gaulle Central African codes in
1942.
Approximate age 29, medium build, fair hair, wears spectacles.

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182. WIRTH
English interpreter and cryptographer. Uffz in English Referat in In 7/VI 1943-44. Transferred to Sprachforschungs Referat in In 7/VI in 1944, (Aug ?). WIRTH travelled in SOUTH AMERICA before the war. Approximate age 40, very short, dark hair.
183. WOLF
French interpreter and cryptographer. O/Gefr in French Referat in In 7/VI in 1944. Cousin of ESZTERHAZY. Approximate age 30, tall, dark hair.
184. von WOLFF
English and Spanish interpreter and cryptographer. Uffz in English Referat in In 7/VI 1943-44. Spanish descent. Political background unknown. Approximate age 30, tall, dark hair.
185. WOLNY
In 1942 O/Wm at Horch Auswertestelle Süd Ost in ATHENS. Sent to BELGRADE in summer 42 as head of Zug Wolny. Promoted Lt in 1944, then Oblt. Approximate age 36, tall, fair hair.
186. WRICZA, Hans
English interpreter and cryptographer. Uffz. In Sep 41 English Referat of In 7/VI; member of the War Office cipher group sent to ATHENS in Jan 42. Worked there on British Middle East and French Central African traffics. Lived at COLOGNE. Catholic. Approximate age 32, medium build, fair hair.
187. WÜNSCHE, Dr
Mathematician and cryptographer. Gefr at Mathematiker Referat in In 7/VI 1943-44. Later in 1944 transferred. WÜNSCHE was a Regierungsrat in the Reichsfinanzministerium. Political background unknown. Approximate age 37, short, dark hair.
188. ZILMANN
Obinsp. Head of the English Referat in In 7/VI 1941 to Aug 44. ZILMANN was no cryptographer. Approximate age 40, medium build, fair hair.